RAW SEQUENCE LISTING DATE: 03/06/2003
PATENT APPLICATION: **US/09/869,185B** TIME: 08:24:42

Input Set : **A:\Ashikari Seq List 2-26-03.txt**
Output Set: **N:\CRF4\03062003\I869185B.raw**

<110> APPLICANT: Ashikari, Toshihiko
Ochiai, Misa

<120> TITLE OF INVENTION: Method of Breeding Yeast

<130> FILE REFERENCE: 46221

<140> CURRENT APPLICATION NUMBER: US 09/869,185B

<141> CURRENT FILING DATE: 2001-06-25

<150> PRIOR APPLICATION NUMBER: PCT/JP00/07491

<151> PRIOR FILING DATE: 2000-10-26

<160> NUMBER OF SEQ ID NOS: 30

<210> SEQ ID NO: 1

<211> LENGTH: 34

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: FRT sequence used in present invention contains SEQ ID NO:1

<400> SEQUENCE: 1

gaagttccta tactttctag agaataggaa cttc 34

<210> SEQ ID NO: 2

<211> LENGTH: 31

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: FRT2 which is one of a pair of FRT sequences (FRT2/FRT102) used in a DNA construct of the present invention

<400> SEQUENCE: 2

gaagttccta tactttctag agaataggaa c 31

<210> SEQ ID NO: 3

<211> LENGTH: 31

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: FRT102 which is one of a pair of FRT sequences (FRT2/FRT102) used in a DNA construct of the present invention

<400> SEQUENCE: 3

gttcctatac tttctagaga ataggaactt c 31

<210> SEQ ID NO: 4

<211> LENGTH: 28

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: FRT2W sequence reconstructed by recombination from a pair of FRT sequences (FRT2/FRT102)

<400> SEQUENCE: 4

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 84 gttcctatac tttctagaga ataggaac                                      28
 87 <210> SEQ ID NO: 5
 89 <211> LENGTH: 29
 91 <212> TYPE: DNA
 93 <213> ORGANISM: Artificial Sequence
 95 <220> FEATURE:
 97 <223> OTHER INFORMATION: FRT3 which is one of a pair of FRT sequences (FRT3/FRT103)
 98       used in a DNA construct of the present invention
100 <400> SEQUENCE: 5
101 gaagttccta tactttctag agaatagga                                      29
104 <210> SEQ ID NO: 6
106 <211> LENGTH: 30
108 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
114 <223> OTHER INFORMATION: FRT103 is one of a pair of FRT sequences (FRT3/FRT103)
115       used in a DNA construct of the present invention
117 <400> SEQUENCE: 6
118 ttcctatact ttctagagaa taggaacttc                                     30
121 <210> SEQ ID NO: 7
123 <211> LENGTH: 25
125 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
131 <223> OTHER INFORMATION: FRT3W sequence reconstructed by recombination from a pair
132       of FRT sequences (FRT3/FRT103)
134 <400> SEQUENCE: 7
135 ttcctatact ttctagagaa tagga                                         25
138 <210> SEQ ID NO: 8
140 <211> LENGTH: 27
142 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
148 <223> OTHER INFORMATION: FRT4 which is one of a pair of FRT sequences (FRT4/FRT104)
149       used in a DNA construct of the present invention
151 <400> SEQUENCE: 8
152 gaagttccta tactttctag agaatag                                       27
155 <210> SEQ ID NO: 9
157 <211> LENGTH: 27
159 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
165 <223> OTHER INFORMATION: FRT104 is one of a pair of FRT sequences (FRT4/FRT104)
166       used in a DNA construct of the present invention
168 <400> SEQUENCE: 9
169 ctatactttc tagagaatag gaacttc                                       27
172 <210> SEQ ID NO: 10
174 <211> LENGTH: 20
176 <212> TYPE: DNA
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178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
182 <223> OTHER INFORMATION: FRT4W sequence reconstructed by recombination from a pair
183 of FRT sequences (FRT4/FRT104)
185 <400> SEQUENCE: 10
186 ctatactttc tagagaatag 20
189 <210> SEQ ID NO: 11
191 <211> LENGTH: 40
193 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
199 <223> OTHER INFORMATION: Oligonucleotide synthesized to insert the FRT1-a sequence
200 (including wild-type FRT sequence) into a plasmid
202 <400> SEQUENCE: 11
203 tcgacgaagt tcctatactt tctagagaat aggaacttcg 40
206 <210> SEQ ID NO: 12
208 <211> LENGTH: 40
210 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
216 <223> OTHER INFORMATION: Oligonucleotide synthesized to insert the FRT1-b sequence
217 (including wild-type FRT sequence) into a plasmid
219 <400> SEQUENCE: 12
220 aattcgaagt tcctattctc tagaaagtat aggaacttcg 40
223 <210> SEQ ID NO: 13
225 <211> LENGTH: 44
227 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
233 <223> OTHER INFORMATION: Oligonucleotide synthesized to insert the FRT101-a sequence
234 (including wild-type FRT sequence) into a plasmid
236 <400> SEQUENCE: 13
237 agcttgaagt tcctatactt tctagagaat aggaacttcg catg 44
240 <210> SEQ ID NO: 14
242 <211> LENGTH: 36
244 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
250 <223> OTHER INFORMATION: Oligonucleotide synthesized to insert the FRT101-b sequence
251 (including wild-type FRT sequence) into a plasmid
253 <400> SEQUENCE: 14
254 cgaagttcct attctctaga aagtatagga acttca 36
257 <210> SEQ ID NO: 15
259 <211> LENGTH: 16
261 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
267 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT2-a sequence
269 <400> SEQUENCE: 15

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270 ctagagaata ggaacg 16
273 <210> SEQ ID NO: 16
275 <211> LENGTH: 16
277 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
283 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT2-b sequence
285 <400> SEQUENCE: 16
286 aattcgttcc tattct 16
289 <210> SEQ ID NO: 17
291 <211> LENGTH: 18
293 <212> TYPE: DNA
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
299 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT102-a sequence
301 <400> SEQUENCE: 17
302 agcttgttcc tatacttt 18
305 <210> SEQ ID NO: 18
307 <211> LENGTH: 18
309 <212> TYPE: DNA
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
315 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT102-b sequence
317 <400> SEQUENCE: 18
318 ctagaaagta taggaaca 18
321 <210> SEQ ID NO: 19
323 <211> LENGTH: 14
325 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
331 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT3-a sequence
333 <400> SEQUENCE: 19
334 ctagagaata ggag 14
337 <210> SEQ ID NO: 20
339 <211> LENGTH: 14
341 <212> TYPE: DNA
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
347 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT3-b sequence
349 <400> SEQUENCE: 20
350 aattctccta ttct 14
353 <210> SEQ ID NO: 21
355 <211> LENGTH: 16
357 <212> TYPE: DNA
359 <213> ORGANISM: Artificial Sequence
361 <220> FEATURE:
363 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT103-a sequence
365 <400> SEQUENCE: 21
366 agctttccta tacttt 16

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Input Set : A:\Ashikari Seq List 2-26-03.txt
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<210> SEQ ID NO: 22
<211> LENGTH: 16
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT103-b sequence
<400> SEQUENCE: 22
ctagaaagta taggaa 16

<210> SEQ ID NO: 23
<211> LENGTH: 12
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT4-a sequence
<400> SEQUENCE: 23
ctagagaata gg 12

<210> SEQ ID NO: 24
<211> LENGTH: 12
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT4-b sequence
<400> SEQUENCE: 24
aattcctatt ct 12

<210> SEQ ID NO: 25
<211> LENGTH: 14
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT104-a sequence
<400> SEQUENCE: 25
agcttctata cttt 14

<210> SEQ ID NO: 26
<211> LENGTH: 14
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT104-b sequence
<400> SEQUENCE: 26
ctagaaagta taga 14

<210> SEQ ID NO: 27
<211> LENGTH: 29
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Oligonucleotide (GIN-1) synthesized to prepare a plasmid containing GIN11
<400> SEQUENCE: 27
tggatccgga atttcgacgg atcaataac 29

VERIFICATION SUMMARY DATE: 03/06/2003
PATENT APPLICATION: **US/09/869,185B** TIME: 08:24:43

Input Set : **A:\Ashikari Seq List 2-26-03.txt**
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